

What is claimed is:

1. A multilayer, unsupported, membrane comprising:
a first layer having a symmetrically distributed first pore size; and
at least a second layer having a symmetrically distributed second
pore size, the first and second layers being operatively connected with a distinct
5 change in pore size at the interface thereof such that the multilayer membrane is
continuous and does not include any support material.
2. The multilayer membrane of claim 1 wherein the first layer
is formed from a first polymer dope for producing one pore size and the at least a
second layer is formed from at least a second polymer dope for producing at least
one different pore size.
3. The multilayer membrane of claim 1 wherein the polymer
dope comprises:
nylon.
4. The multilayer membrane of claim 1 wherein the polymer
dope comprises:
polyvinylidene fluoride.
5. The multilayer membrane of claim 1 wherein the polymer
dope comprises:
polyether sulfone.
6. The multilayer membrane of claim 1 wherein the multilayer
membrane has a type I configuration.
7. The multilayer membrane of claim 29 wherein the
multilayer membrane has a type II configuration.
8. The multilayer membrane of claim 1 wherein the multilayer
membrane has a type III configuration.
9. The multilayer membrane of claim 1 wherein the multilayer
membrane has a type IV configuration.
10. The multilayer membrane of claim 1 wherein the multilayer
membrane has a type V configuration.
11. The multilayer membrane of claim 1 wherein the multilayer
membrane has a type VI configuration.
12. The multilayer membrane of claim 1 wherein the multilayer
membrane has a type VII configuration.
13. The multilayer membrane of claim 1 wherein the multilayer
membrane has a type VIII configuration.

14. The multilayer membrane of claim 1 wherein the multilayer membrane has a type IX configuration.

15. A two layer, unsupported, membrane comprising:
a first layer having a symmetrically distributed first pore size; and
a second layer having a symmetrically distributed second pore size,
the first and second layers being operatively connected with a distinct change in
5 pore size at the interface thereof such that the two layer membrane is continuous
and does not include any support material.

16. A two layer, unsupported, membrane comprising:
a first layer having a symmetrically distributed first pore size; and
a second layer having a symmetrically distributed second pore size,
the first and second layers being operatively connected
5 such that the two layer membrane is continuous with a minimum of
shear turbulence induced interlayer mixing and does not include any support
material.